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4. (AMENDED) The method as recited in claim 3 wherein said first expanded tube and said u-shaped second expanded tube include a plurality of tube grooves formed by expanding said first extruded tube and said u-shaped second extruded tube in said first mold and said second mold, respectively, each including a plurality of mold grooves on an inner surface of said first mold and said second mold.

5. (AMENDED) The method as recited in claim 3 wherein said first expanded tube includes an end and said second expanded tube includes a pair of ends, and the method further comprises the step of attaching said end of said first expanded tube and said pair of ends of said u-shaped second expanded tube to a flange to form one of said cells, and said first expanded tube is located in an opening of said u-shaped second expanded tube that is defined between said pair of ends, and a flue gas passage containing a flue gas is defined between said first expanded tube and said u-shaped second expanded tube.

6. (AMENDED) The method as recited in claim 5 wherein said flange is made of a norbornene polymer, and the step of attaching said end and said outer ends to said flange includes thermally adhering said first end and said pair of ends to said flange.

7. (AMENDED) The method as recited in claim 5 wherein said flange is made of metal, and the step of attaching said first end and said pair of ends to said flange includes heating and flaring said first end and said pair of ends.

8. (AMENDED) The method as recited in claim 2 wherein the step of forming each of said plurality of cells includes expanding said at least one extruded tube with air in a mold to form a substantially w-shaped expanded tube and attaching a pair of ends of said expanded tube to a flange to form one of said cells, a flue gas passage being defined in said expanded tube.

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10. (AMENDED) A method for making a heat transfer component comprising the step of:
melting a norbornene polymer;
hot extruding said melted norbornene polymer to form a first extruded tube and a second extruded tube;
expanding said first extruded tube with air within a first mold having a plurality of first mold grooves on an inner surface of said first mold to form a first expanded tube having a plurality of first tube grooves and expanding said second extruded tube with air within a second mold having a plurality of second mold grooves on an inner surface of said second mold to form a substantially u-shaped second expanded tube having a plurality of second tube grooves; and
attaching an end of said first expanded tube and a pair of ends of said second expanded tube to a flange to form at least one cell, and said first expanded tube is located in an opening of said second expanded tube defined between said pair of ends, and a flue gas passage containing a flue gas is defined between said first expanded tube and said second expanded tube.
- R2
11. (AMENDED) The method as recited in claim 10 wherein said flange is made of a norbornene polymer, and the step of attaching said end and said pair of ends to said flange includes thermally adhering said end and said pair of ends to said flange.
12. (AMENDED) The method as recited in claim 10 wherein said flange is made of metal, and the step of attaching said end and said pair of ends to said flange includes heating and flaring said end and said pair of ends.

R3

21. (NEW) The method as recited in claim 3 wherein said first mold has a bottom portion and a top portion, the method further including the steps of positioning said first extruded tube in said bottom portion of said first mold and placing said top portion on said bottom portion to retain said first extruded tube therebetween.

22. (NEW) The method as recited in claim 5 wherein said u-shaped second expanded tube is continuous between said pair of ends.

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P7
23. (NEW) The method as recited in claim 10 further including a second at least one cell, and an air flow passage is defined between said at least one cell and said second at least one cell.

24. (NEW) A method for making a heat transfer component comprising the steps of:
forming a plurality of cells of a norbornene polymer, each of said cells including a first expanded tube and a second u-shaped expanded tube having a pair of ends and an opening defined between said pair of ends, said second u-shaped expanded tube is continuous between said pair of ends, and said first tube is located in said opening; and
using said plurality of cells as part of said heat transfer component.

R3
25. (NEW) The method as recited in claim 24 wherein a flue gas passage is defined between said first expanded tube and said u-shaped second expanded tube.

26. (NEW) The method as recited in claim 24 further comprising the step of attaching an end of said first expanded tube and said pair of ends of said u-shaped second expanded tube to a flange to form one of said plurality of cells.

27. (NEW) The method as recited in claim 24 wherein said flange is made of a norbornene polymer, and the step of attaching said end and said outer ends to said flange includes thermally adhering said first end and said pair of ends to said flange.

REMARKS

Applicant elected Group 1, Species 1A in a previous response. Claims 7-9 and 12-20 have been withdrawn from further consideration as being drawn to a nonelected group II, Species IB, II, and III.

Claim 4 is objected to for reciting "a plurality of tubes grooves." Claim 4 has been amended to recite "a plurality of tube grooves."